ABBY J. VOGEL

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EDUCATION

Doctor of Philosophy in Biological Resources Engineering
University of Maryland, College Park, MD Overall GPA: 3.5
Master of Science in Biological Resources Engineering, May 2004
University of Maryland, College Park, MD Overall GPA: 3.4
Bachelor of Science in Biological Resources Engineering, May 2002
University of Maryland, College Park, MD Major GPA: 3.6 (Overall GPA: 3.3)

EMPLOYMENT

National Institutes of Health Bethesda, Maryland
Graduate Research Fellow 6/02 – present
NICHD, Laboratory of Integrative and Medical Biophysics, Section on Biomedical Stochastic Physics

- Co-authored one scientific paper for publication in a professional journal, one book chapter, and three conference proceeding papers
- Gave an oral presentation at a professional meeting and presented at five poster sessions
- Served as technical coordinator of the Fourth Inter-Institute Workshop on Optical Diagnostic Imaging from Bench to Bedside at the National Institutes of Health
- Conducted non-invasive imaging research to study quantitative effects of radiation on mouse skin leading to fibrosis
- Performed patient trials of Kaposi's Sarcoma (KS) and Complex Regional Pain Syndrome (CRPS) protocols using innovative diagnostic techniques
- Researched and oversaw the procurement of laboratory equipment and supplies

University of Maryland Terrapin Yearbook College Park, Maryland
Editor in Chief (1/01-3/02), *Sports Editor* (3/99-1/01), *Business Manager* (10/99-3/02) 3/99 – 3/02

- Hired and managed staff of ten student workers
- Instructed employees to use Macintosh computers with Adobe Pagemaker and Photoshop software programs
- Created yearly budget and determined employee payroll
- Designed multiple sections of yearbook and edited all 320 pages and proofs
- Ensured deadlines and proofs were sent in on time

ORGANIZATIONS

- Omicron Delta Kappa – Sigma Circle (2001-present)
- Graduate Engineering Student Council (2004-present)
- Biological Resources Engineering Graduate Association (2004-present)
- Graduate Student Representative, University Senate Student Conduct Committee (2004-present)
- Graduate Student Senator and Student Affairs Committee Chair, University Senate (2003-2004)
- Graduate Student Representative, University Senate Nominations Committee (2004)
- Graduate Student Success Task Force member (2003-2004)
- Graduate Student Representative, University Senate Student Affairs Committee (2002-2003)
- Undergraduate Student Senator, University Senate Executive Committee (2001-2002)
- Maryland Media, Inc. Executive Board (2001-2002)
- Biological Resources Engineering Society (1999-2002)

PROFESSIONAL AFFILIATIONS

- D.C. Science Writers Association (DCSWA)
- Biomedical Engineering Society (BMES)
- The International Society for Optical Engineering (SPIE)
- Optical Society of America (OSA)
- Order of the Engineer – Link 137 (OE)

HONORS

- Taylor Publishing Yearbook Yearbook Semi-Finalist (Fall 2002)
- Who's Who Among Students in American Universities and Colleges (Spring 2002)
- A. James Clark School of Engineering Alumni Chapter Student Award (Spring 2002)
- National Collegiate Engineering Award (Fall 2001)
- Biological Resources Engineering Outstanding Junior Award (Spring 2001)

PUBLICATIONS AND PRESENTATIONS

A. Vogel. Non-Invasive Imaging Techniques as a Quantitative Analysis of Skin Damage due to Ionizing Radiation. Master of Science Thesis. Biological Resources Engineering. College Park, University of Maryland, May 2004.

A. Vogel. Picking a Bone With Chicken. University of Maryland Newsdesk. Available online: http://www.newsdesk.umd.edu/scitech/release.cfm?ArticleID=1032. February 4, 2005.

A. Vogel, M. Hassan, D. Hattery, V. Chernomordik, F. Hekmat, K. Aleman, K. Wyvill, L. Merced, R. Little, R. Yarchoan and A. H. Gandjbakhche. Non-invasive imaging techniques to study vascular tumor associated with Kaposi's sarcoma. Poster presented at the University of Maryland Bioscience Day, November 2004.

A. Vogel, M. Hassan, D. Hattery, S. Demos, A. Russo, Y. Tao and A. Gandjbakhche. Using non-invasive imaging techniques to assess the collagen breakdown in skin after radiation. Oral presentation at the SPIE Photonics West Conference, January 2004.

A. Vogel, M. Hassan, D. Hattery, S. Demos, A. Russo, Y. Tao and A. Gandjbakhche. Using non-invasive imaging techniques to assess the collagen breakdown in skin after radiation. Poster presented at the NIH Graduate Student Research Symposium, April 2004.

A. Vogel, M. Hassan, D. Hattery, S. Demos, A. Russo, Y. Tao and A. Gandjbakhche. Assessing the collagen breakdown after radiation in mouse model using multi-modality imaging techniques. Poster presented at the NIH Research Festival, October 2003.

A. Vogel, M. Hassan, D. Hattery, V. Chernomordik, F. Hekmat, K. Aleman, K. Wyvill, L. Merced, R. Little, R. Yarchoan and A. H. Gandjbakhche. Non-invasive imaging techniques to study vascular tumor associated with Kaposi's sarcoma. Poster presented at the NIH Research Festival, October 2002.

A. Vogel, M. Hassan, D. Hattery, S. Demos, A. Russo, Y. Tao and A. Gandjbakhche. Multimodality imaging techniques to assess the collagen breakdown in mouse model after radiation. Poster presented at the University of Maryland Bioscience Day, November 2003.

D. Hattery, B. Hattery, M. Hassan, V. Chernomordik, **A. Vogel**, F. Hekmat, and A. Gandjbakhche. Optical Quantification of Epithelial Layer Thickness as a Measure of Oral Inflammation. Proceedings of Lasers in Dentistry IX; eds. Peter Rechmann D.D.S., Daniel Fried, and Thomas Hennig; Proc. of SPIE, 4950:1-10, 2003.

M. Hassan, R. Little, **A. Vogel**, K. Aleman, K. Wyvill, R. Yarchoan and A.H. Gandjbakhche. Quantitative Assessment of Tumor Vasculature and Response to Therapy in Kaposi's Sarcoma Using Functional Noninvasive Imaging. Technology in Cancer Research and Treatment, 3(5): 451-7, October 2004.

M. Hassan, D. Hattery, **A. Vogel**, V. Chernomordik, F. Hekmat, K. Aleman, K. Wyvill, L. Merced, R. Little, R. Yarchoan and A.H. Gandjbakhche. Multi-modality imaging techniques to assess Kaposi's Sarcoma associated with angiogenesis. Proceedings of 7th International Conference on Malignancies in AIDS and Other Immunodeficiencies: Basic, Epidemiologic and Clinical Research, Bethesda, Maryland, 2003.

M. Hassan, D. Hattery, **A. Vogel**, V. Chernomordik, F. Hekmat, K. Aleman, K. Wyvill, L. Merced, R. Little, R. Yarchoan and A.H. Gandjbakhche. Multi-modality imaging techniques to study angiogenesis associated with Kaposi's Sarcoma. Second joint meeting EMBS/BMES conference, Houston, TX, 2002. 1139-40.

M. Hassan, V. Chernomordik, **A. Vogel**, D. Hattery, I. Gannot, R. Yarchoan and A.H. Gandjbakhche. Infrared imaging for tissue characterization and function. Chapter 16, The Biomedical Engineering Handbook—Third Edition, CRC and IEEE press. In press.